MARKETING NEWS
Leak Detection Tools

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NEW PRODUCT RELEASE!

Tracer Gas Filler TGF11
– a brand new tracer gas filler for industrial leak testing.

INFICON presents the TGF11 Tracer Gas Filler, successor of the TGF10. A new tracer gas filler for controlled filling and evacuating of tracer gas for leak testing. The TGF11 is a stand-alone unit which can therefore be used for tracer gas filling in connection with any of INFICONs leak detectors e.g Sentrac, P3000, and T-Guard. It has a high filling speed but still works extremely well for filling small and fragile objects. The filler is available in low- and standard pressure versions.

1. Background
2. Product description
3. Pricing
4. Availability
5. Sales Material
6. Some arguments to use
7. Training
8. Possible FAQ's

1.Background

Since selling a tracer gas leak detector means that the customer is faced with also solving the problem of getting the tracer gas in and out of his product to test, this has always been a sales opportunity. And a possibility to offer the customer means to get started as quickly as possible, with proven and tried products.

Before the arrival of the TGF11 the choices for average cost fillers was limited to the Tracer Gas Filler TGF10. This product could only operate as a slave to the ISH2000 which limited the sales possibilities. We therefore made the TGF11, the successor to TGF10, stand alone and with its own intelligence, allowing it to operate as a filler for any hydrogen /helium situation.

2. Product description

2.1.General description:

2.1.1 The TGF11 Tracer Gas Filler is a high performance instrument for filling and evacuating tracer gas for leak testing purposes.

2.1.2 The instrument has a small OLED display which is operated by four hard keys, and has the new corporate HMI.

2.1.3 Evacuation/vacuum is created by a built-in venturi.

2.1.4 The test pressure is controlled by a proportional valve.

2.1.5 The tracer gas pressure from the source is monitored.

2.1.6 The instrument has two ports to connect to the test object for rapid filling and evacuation. This also enables the user to assure that tracer gas completely replaces the air inside the test object.

2.1.7 Both hydrogen and helium can be used.

2.1.8 The complete instrument shipment comprises instrument, mains cable and USB cable.

2.1.9 The working sequence includes the following:

1. Pre-evacuation and gross leak test.
The gross leak test is triggered by the ability to reach the desired vacuum within a pre-set time (customer's choice).

2. Tracer gas filling and gross leak test.
The gross leak test is triggered by the ability to reach the desired pressure within a pre-set time (customers choice).

3. Leak detection time.
This is the time when the filler controls and maintains the set test pressure and waits for the operator/detector to perform the leak test.

4. Evacuation of tracer gas and refilling of air to ambient pressure.

2.1.10 The TGF11 comes in two different pressure ranges

Standard model - for testing between 0.3 - 10 barg (4.4 - 145 PSI)

Low Pressure model (LP) – for testing between 0.05 - 2 barg (0.7 - 29 PSI)

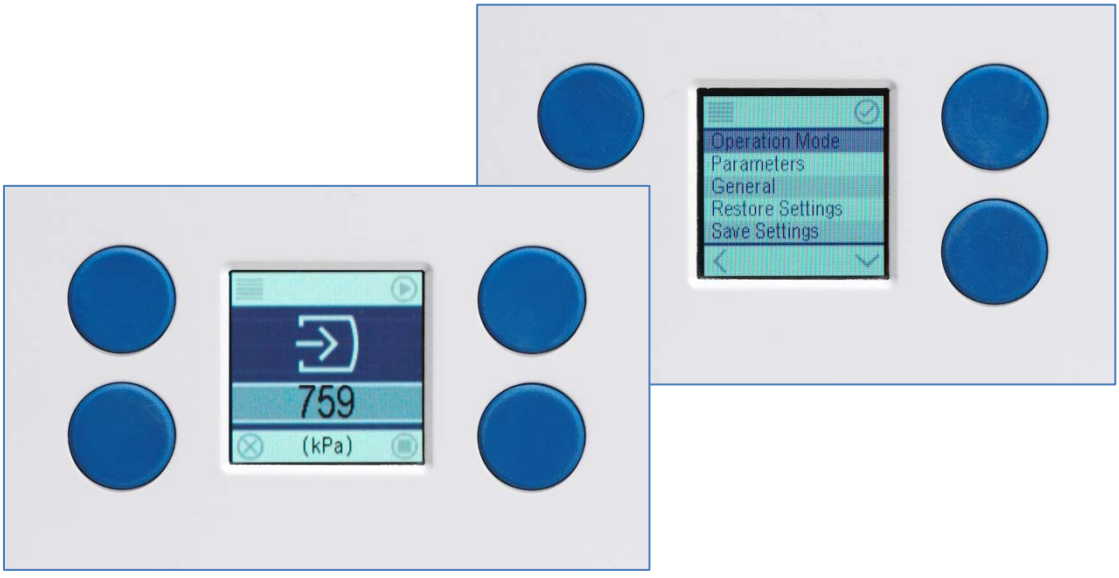
See more information in P2.3

2.2. Parts and details

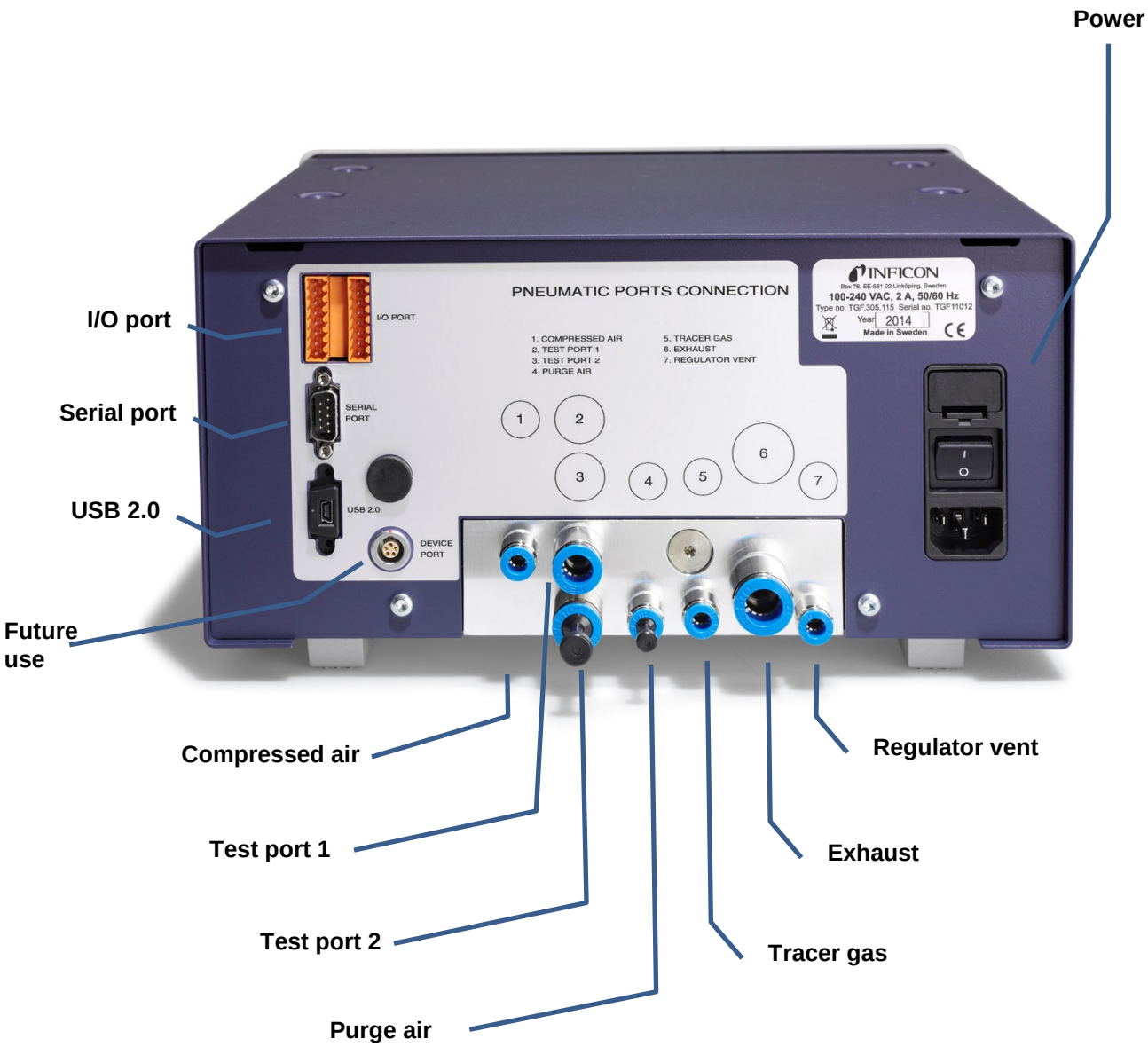
- TGF11 Tracer Gas Filler

Front

Screen

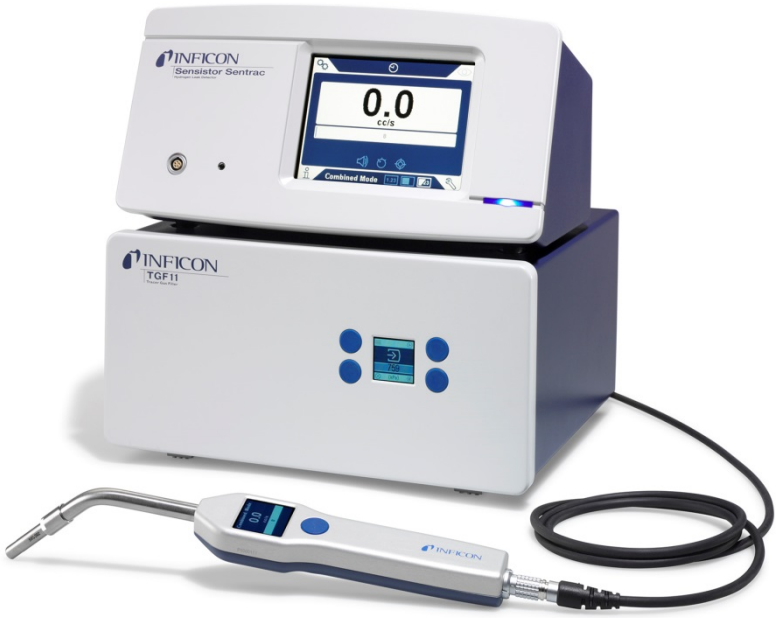


Back


Power
I/O port
Serial port
USB 2.0
Future use
Compressed air
Test port 1
Test port 2
Purge air
Regulator vent
Exhaust
Tracer gas
PNEUMATIC PORTS CONNECTION
1. COMPRESSED AIR
2. TEST PORT 1
3. TEST PORT 2
4. PURGE AIR
5. TRACER GAS
6. EXHAUST
7. REGULATOR VENT
I/O PORT
SERIAL PORT
USB 2.0
DEVICE PORT
INFICON
100-240 VAC, 2 A, 50/60 Hz
Made in Sweden

Foldable feet

Indents for stacking Sensistor Sentrac on top



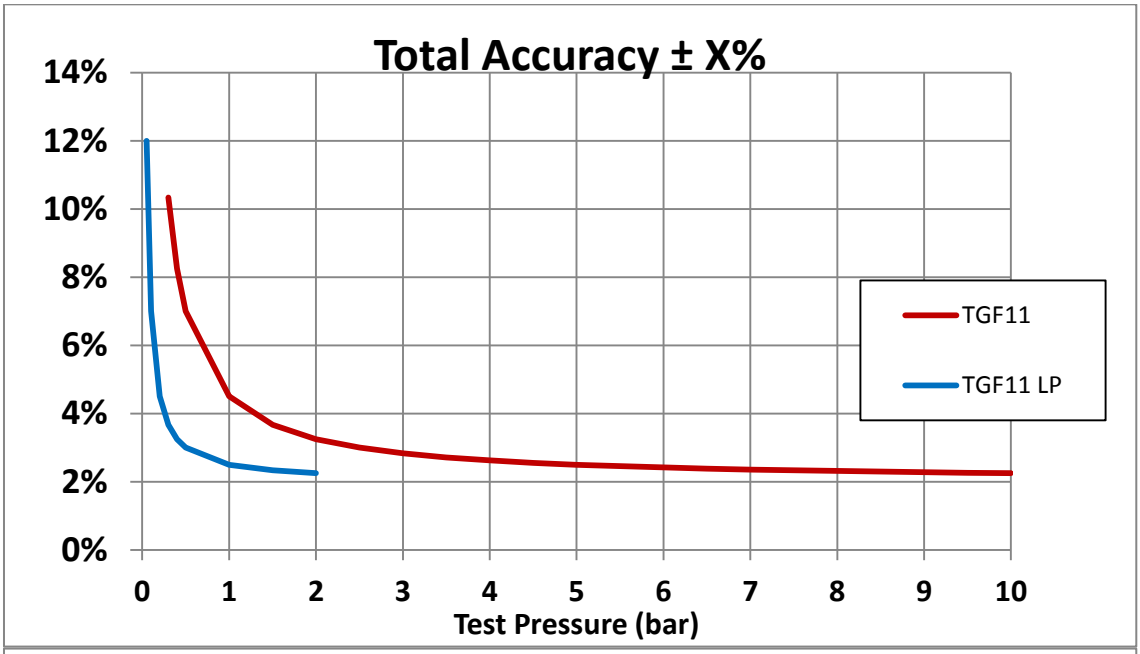
2.3 Models & P/N's

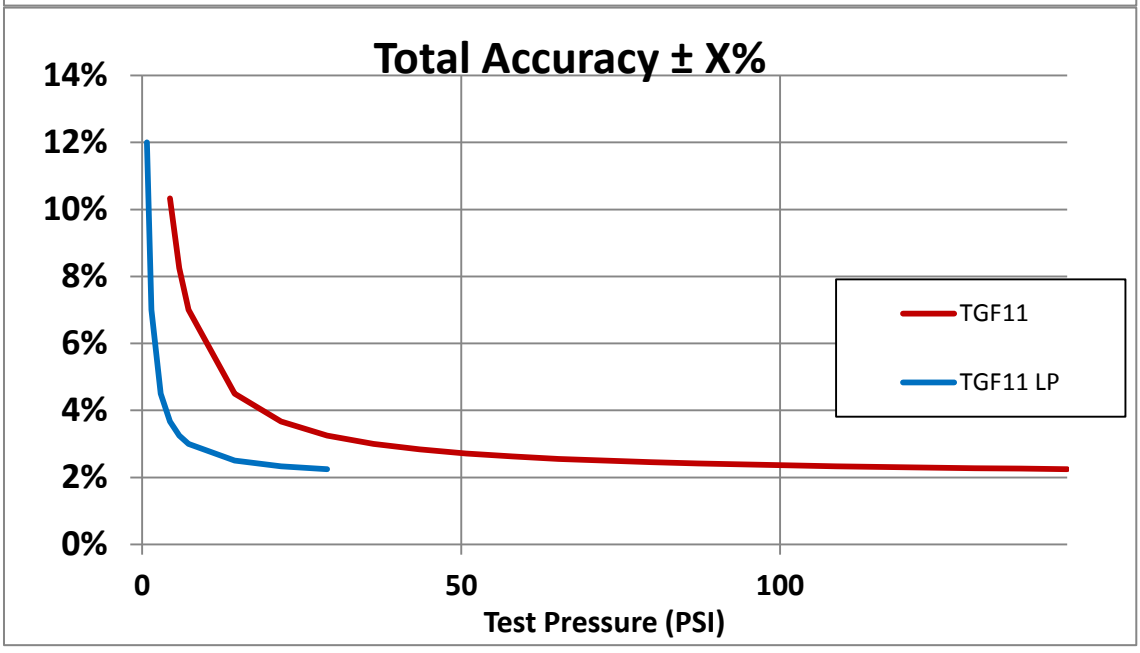
2.3.1 There are two models of the TGF11:

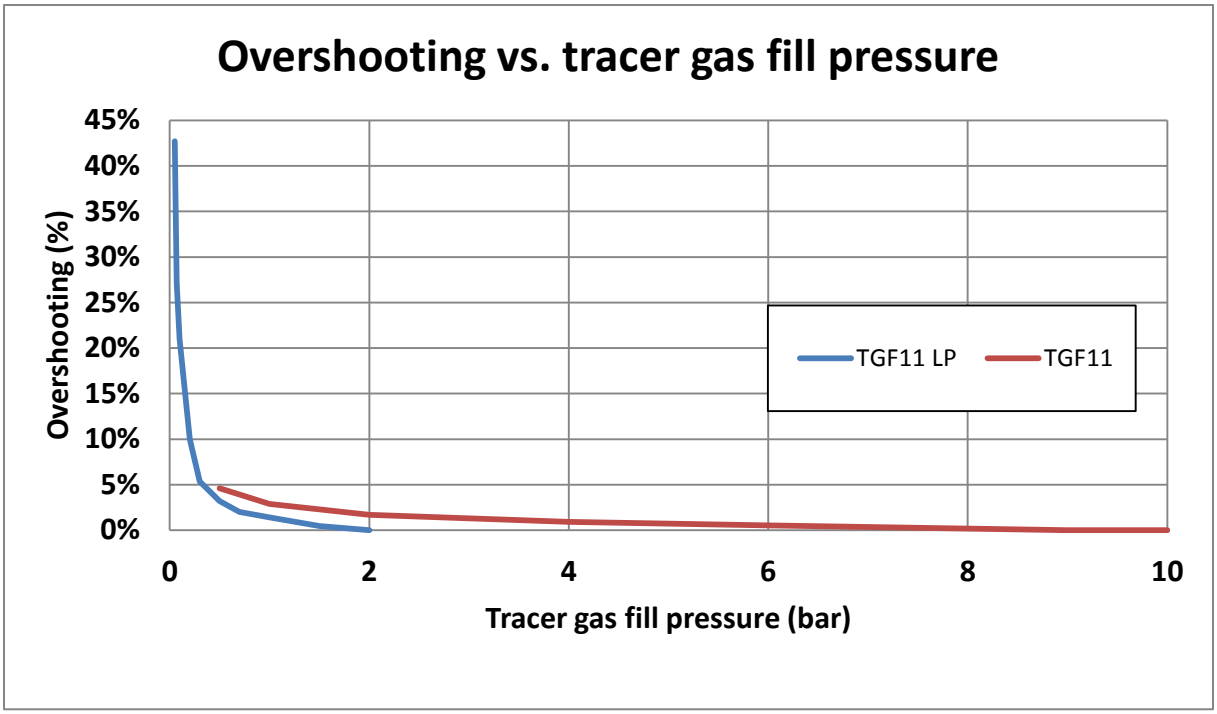
P/N 590-558 TGF11 – for testing between 0.3 - 10 barg (4.4 - 145 PSI)
P/N 590-559 TGF11 LP (Low Pressure) – for testing between 0.05 - 2 barg (0.7 - 29 PSI)

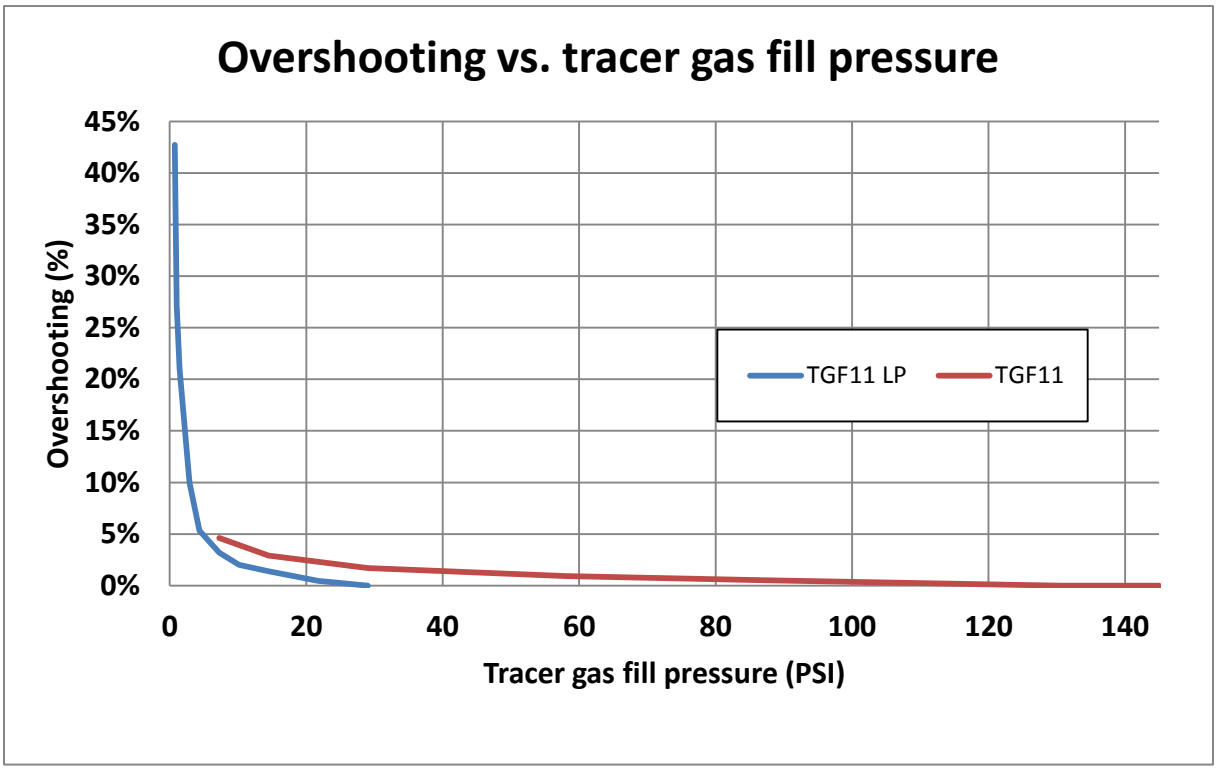
The reason for having two different ranges is that there may be different demands from the customer for accuracy and max possible overshoot during filling. (see below)

	Min pressure (Bar/PSI)	Max Pressure (Bar/PSI)	Resolution (mbar/PSI)
TGF11	0,3 / 4.4	10 / 145	5 / 0.07
TGF11 LP	0,05 / 0.7	2 / 29	1 / 0.015

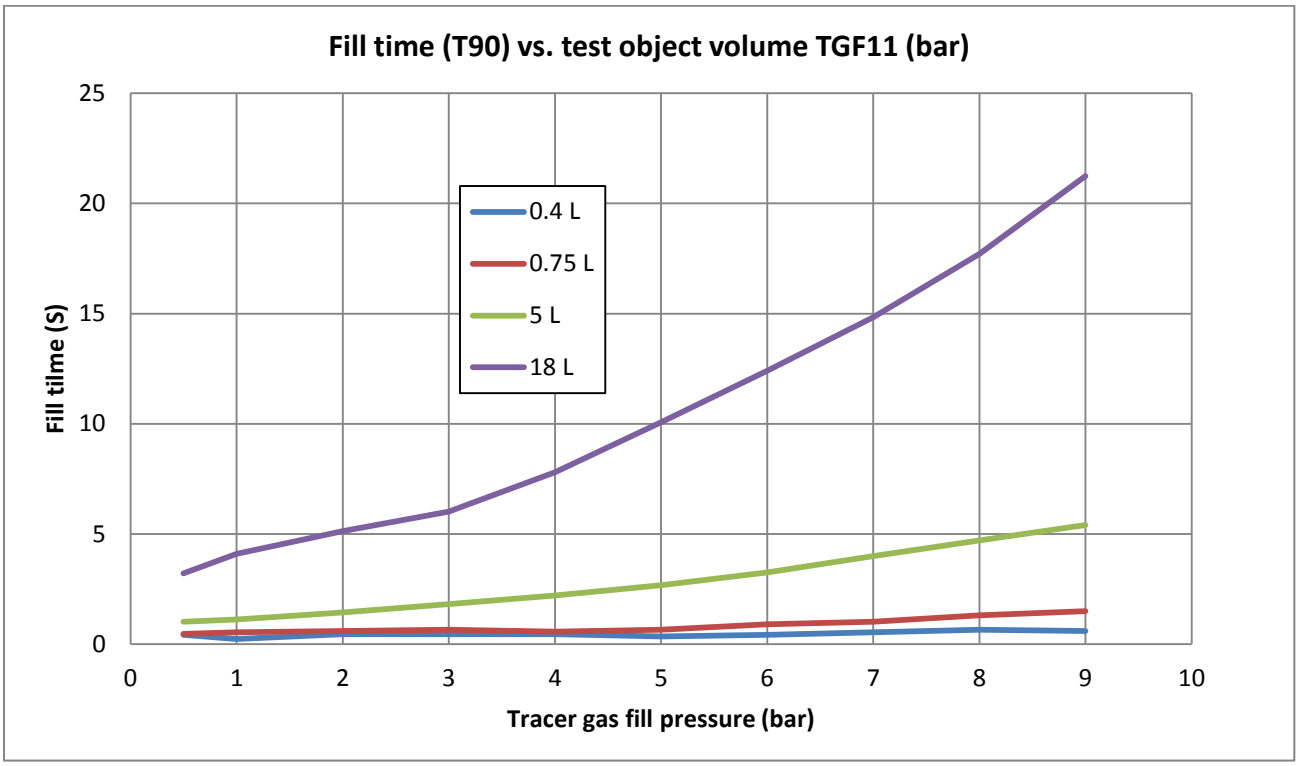


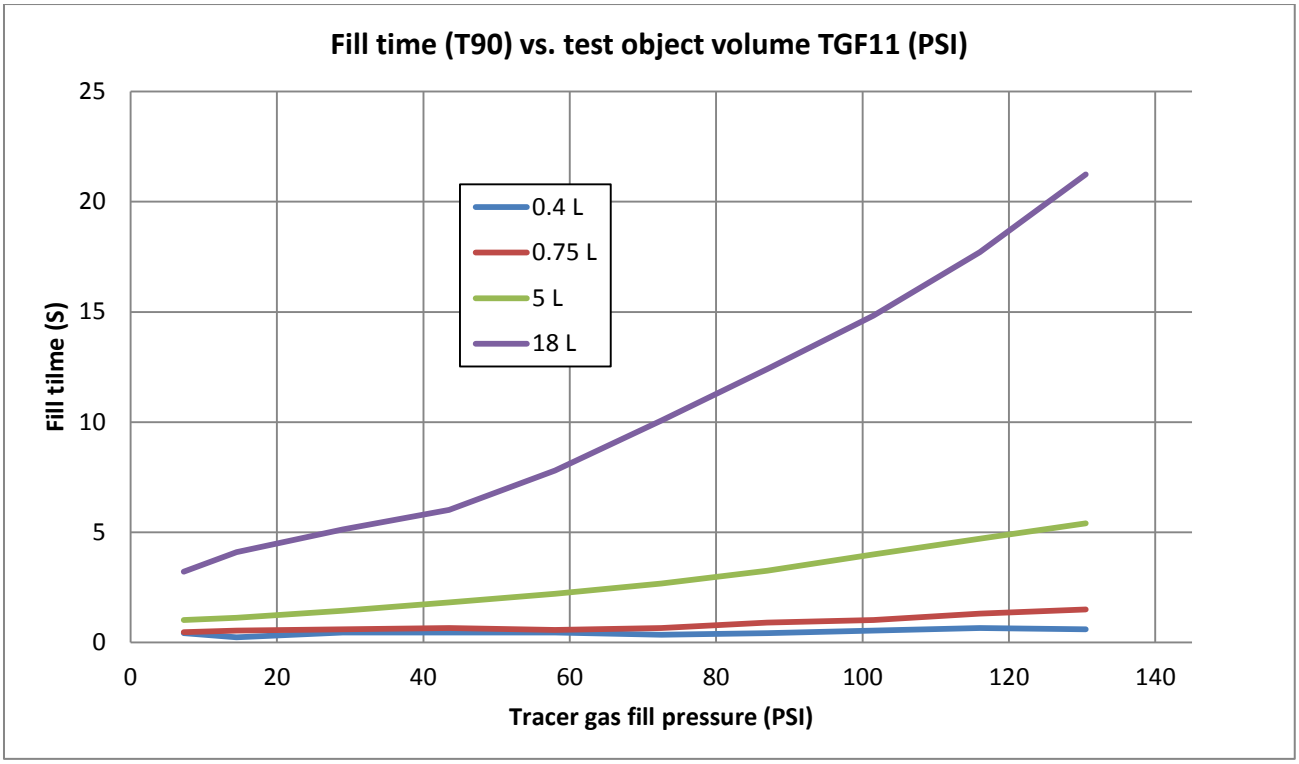


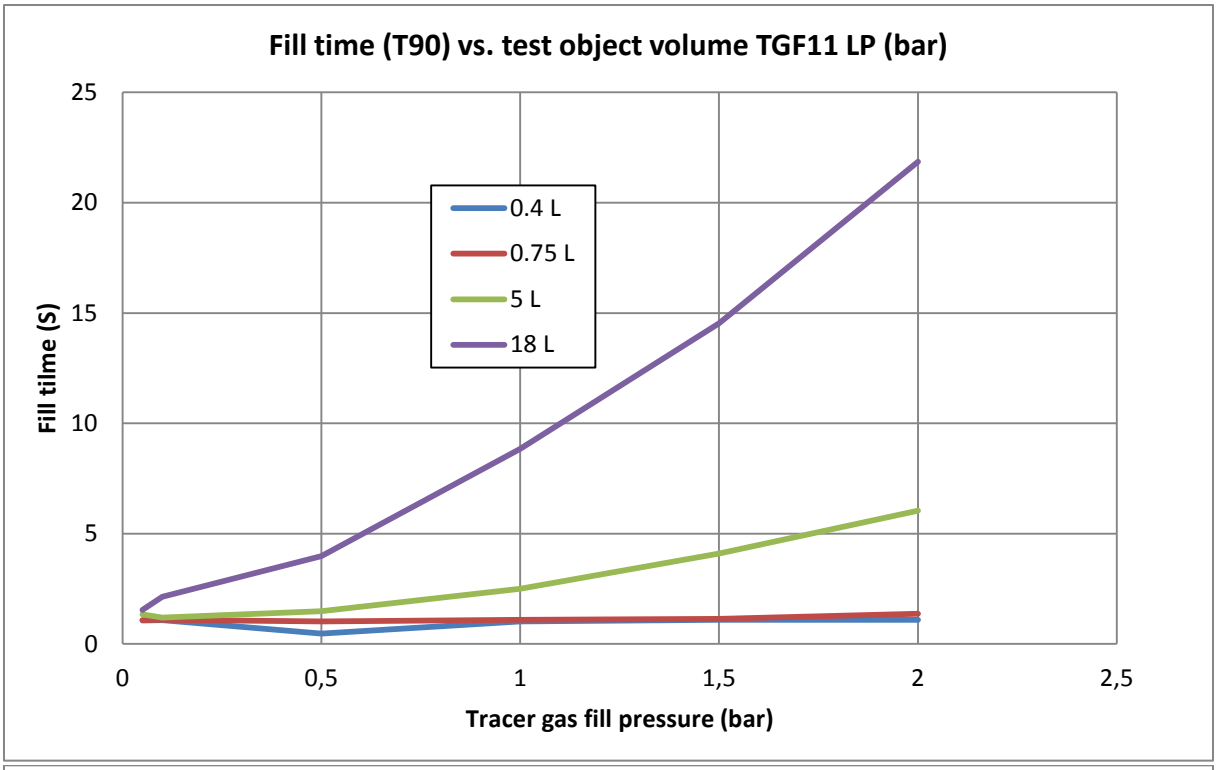

Overshooting vs. tracer gas fill pressure
Overshooting (%)
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
0
2
4
6
8
10
Tracer gas fill pressure (bar)
TGF11 LP
TGF11

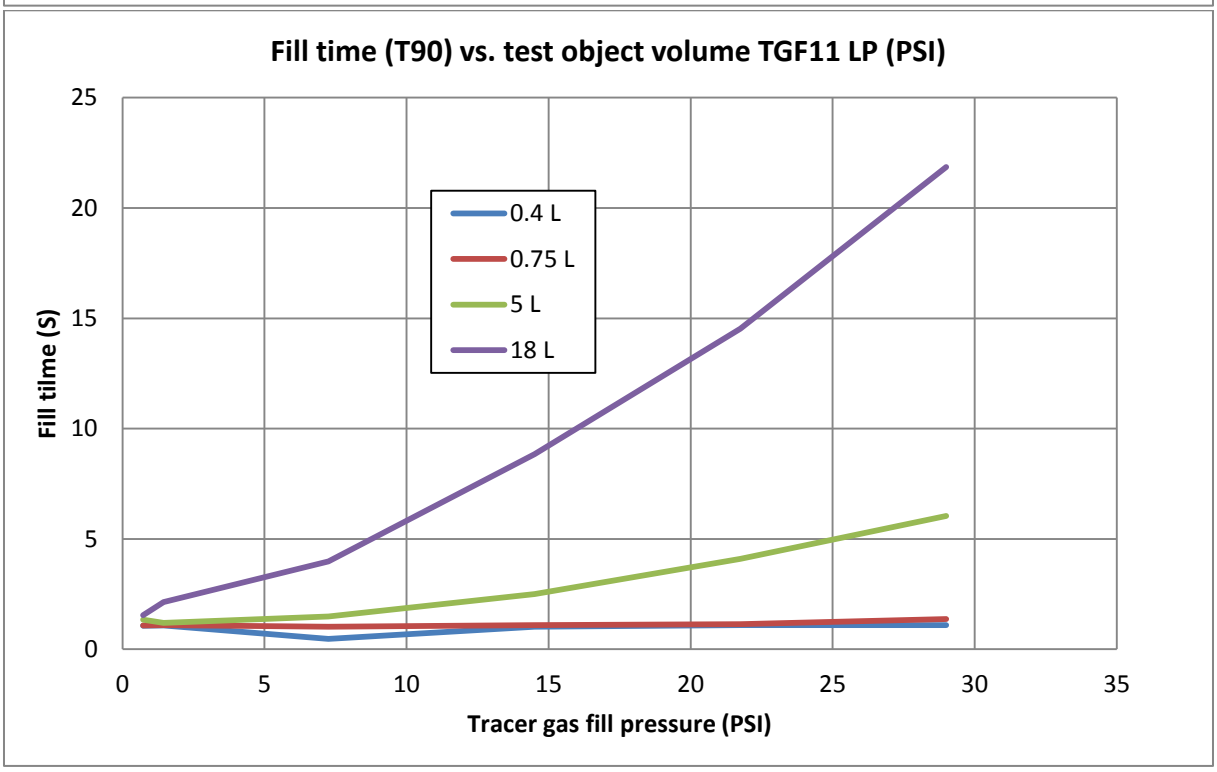

Overshooting vs. tracer gas fill pressure
Overshooting (%)
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
0
20
40
60
80
100
120
140
Tracer gas fill pressure (PSI)
TGF11 LP
TGF11

2.3.2 Fill time






Fill time (T90) vs. test object volume TGF11 LP (bar)
Fill tilme (S)
25
20
15
10
5
0
0
0,5
1
1,5
2
2,5
Tracer gas fill pressure (bar)
0.4 L
0.75 L
5 L
18 L


Fill time (T90) vs. test object volume TGF11 LP (PSI)
Fill tilme (S)
25
20
15
10
5
0
0
5
10
15
20
25
30
35
Tracer gas fill pressure (PSI)
0.4 L
0.75 L
5 L
18 L

2.4 Major Features & Benefits:

2.4.1 Stand-alone tracer gas filler for both hydrogen and helium, and works with any leak detector.

2.4.2 Controls and maintains the test pressure.

2.4.3 Helps avoiding diluting the tracer gas when filling the test object.

2.4.4 Gross leak test when evacuating and filling the test object, to avoid wasting tracer gas.

2.4.5 Faster filling thanks to two filling ports - reduces total testing cycle time. Fill through both, or flush through.

2.4.6 Avoids tracer gas contamination at your work place.

2.4.7 Fills even small, fragile objects at low pressures.

2.4.8 I/O and serial ports allow for controlling the TGF11 and status signals.

2.4.9 USB port allows for controlling the TGF11 and status signals, plus upgrade of SW.

2.4.10 Minimal maintenance

2.4.11 Easy set-up with user friendly HMI

3. Pricing

The price level of the TGF11 is set at approximately 75% above the price of the TGF10, but still in a very competitive range. The same price applies for both the low- and high pressure models. Prices will be issued separately.

4. Availability

The TGF11 Tracer Gas Filler can be ordered as of now. Deliveries for end users will start in December 2014. Deliveries of demonstration kits will start slightly after that.

5. Sales material

5.1 Brochure: A new brochure will be released in English. Other languages will follow shortly. Once a new language version is avaliable copies will be sent to your office automatically. PDF-versions will be put on the Sales App/Website as soon as they become available.

5.2 Operating Manual: Will be made available through Sales App and website when available. English only to start with.

5.3 Pictures: are available and can be requested from antonella.darrigo@inficon.com

5.4 Power point: a Product Presentation Power Point will shortly be available on your Sales App under Sensistor Sentrac

5.5 Demo unit:

There are two types of demo unit…

a. Buy the Demo Kit: This Kit will give you the TGF11 nicely packaged in a durable case, with room for your personal tooling and extras.

   The Demo Kit P/N is 590-005

b. Buy just a TGF11: Always good to have a unit handy for customer evaluation.

Please contact order.sweden@inficon.com for pricing.

6. Some arguments to use

6.1 Proper filling and evacuation of the test object is something each user of a gas leak detector is faced with. We can help the customer get started quicker and better by offering a filler.

6.2 If you need a simple and quick way to get your tracer gas into your test object – the TGF11 is your choice. If you need that AND tooling control – the ILS500F is your choice.

6.3 Controlled tracer gas handling minimizes the problems with high and varying background levels of tracer gas.

6.4 Gross leak tests included in the TGF11 save gas and testing time.

6.5 High precision pressure control even for small and fragile objects.

6.6 It is necessary to pre-evacuate the test object, especially if your test object contains narrow passages and dead-ends, to ensure that tracer gas fills the entire object. The TGF11 does this for you. This ALSO ensures that you get a high concentration of your tracer gas inside the test object, so that the tracer gas is not unnecessarily diluted by remaining air.

But - as always:
Knowing what the customer wants and needs, will give you the winning argument.

7. Training

Please contact support.sweden@inficon.com and we will make sure you get training on your TGF11.

8. Possible FAQ:s

1. Can the TGF11 work with any detector?
   Answer: Yes, as long as the detector wants to detect hydrogen or helium. Our examples are Sentrac, ISH2000 with or without the AP29, Protec P3000 and T-Guard. There is no communication between the TGF11 and the detector.

2. How can I get an external start/stop function closer to the operator?
   Answer: The customer makes this and connects to either of the communication ports available.

3. How big is it?
   Answer: (HxWxD) 159 x 305 x 283mm / 6.25 x 12 x 11.14in
   weight 9,5 kgs / 21lb

4. What languages does it have?
   Answer: Instrument: Eng, Ger, Fre, Spa, Ita, Swe
   User Manual: Eng, Ger, Fre, Spa, Ita
   Service Manual: Eng, Ger

5. Will the TGF10 go out of production now?
   Answer: Yes. The TGF11 replaces the TGF10

Other questions?
Please contact INFICON Sweden if you have the slightest uncertainty about anything or need additional information or help.

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end